

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

			•	
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,379	12/12/2003	Prakash K. Mirchandani	TMP-2023	1694
75	90 11/16/2006		EXAM	INER
Patrick J. Viccaro Allegheny Technologies Incorporated 1000 Six PPG Place Pittsburgh, PA 15222-5479			WYSZOMIERSKI, GEORGE P	
			ART UNIT	PAPER NUMBER
			1742	
			DATE MAILED: 11/16/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

			(
		Application No.	Applicant(s)				
		10/735,379	MIRCHANDANI, PRAKASH K.				
٠	Office Action Summary	Examiner	Art Unit				
		George P. Wyszomierski	1742				
Period fe	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the d	correspondence address				
WHIC - Exte afte - If NC - Failt Any	CHEVER IS LONGER, FROM THE MAILING DA ansions of time may be available under the provisions of 37 CFR 1.13 rs IX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we ure to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)[\]	Responsive to communication(s) filed on 10/9/	06 (Election).					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)🖂	Claim(s) 1-29 is/are pending in the application.	,					
,	4a) Of the above claim(s) <u>23-29</u> is/are withdrawn from consideration.						
5)[5) Claim(s) is/are allowed.						
- 6)⊠	Claim(s) 1-22 is/are rejected.		b.				
7)	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and/or	r election requirement.					
Applicat	ion Papers						
9)[The specification is objected to by the Examiner	r.					
10)	The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority (under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:)-(d) or (f).				
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	ut(s)						
	ce of References Cited (PTO-892)	4) Interview Summary					
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
	r No(s)/Mail Date <u>6/29/05</u> .	6) Other:					

Application/Control Number: 10/735,379

Art Unit: 1742

1. Applicant's election without traverse of Group I, claims 1-22 in the reply filed on

Page 2

October 9, 2006 is acknowledged.

2. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite

for failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention. It is unclear what properties would fall within the scope of this

claim, i.e. what physical and/or mechanical properties would have to be different, and

what degree of difference would be required, in a second dispersed phase in order for a

material to meet the limitations of this claim.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

4. Claims 1-3, 6, 7, 11-13, 15-17, and 20-22 are rejected under 35 U.S.C. 102(b) as

being anticipated by Fischer et al. (U.S. Patent 4,743,515).

Fischer discloses a material including an eta-phase cemented carbide uniformly

distributed in a matrix of a continuous cemented carbide phase. Both cemented carbide phases

in Fischer include W, C, and Co. The photomicrograph of Figure 3 of Fischer clearly shows that

the contiguity ratio and volume percentages of the eta-phase material in the prior art are within

the parameters as presently claimed. Thus, all aspects of the claimed invention are held to be

fully disclosed by Fischer et al.

Application/Control Number: 10/735,379

Art Unit: 1742

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Page 3

6. Claims 4, 5, 8-10, 14, 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fischer et al.

Fischer, discussed supra, does not specify the hardness or Palmquist toughness of the prior art materials, the second dispersed phase as defined in instant claim 5, or the specific percentages of binder in the two cemented carbide phases as defined in instant claim 14. However, given that the actual materials that compose the phases in the Fischer products are the same as those of the presently claimed products, it is a reasonable assumption that their physical properties would likewise be the same or nearly so. With respect to claim 5, Fischer column 1, lines 50-52 indicates that the term "eta-phase" in the prior art in fact may include more than one carbon-containing phase, thus rendering claim 5 within the scope of the prior art. With respect to claim 14, materials containing the presently claimed amounts of binder in the respective phases are within the purview of the materials as disclosed by the Fischer patent. Thus, a prima facie case of obviousness is established between the disclosure of Fischer et al. and the presently claimed invention.

7. Claims 1-22 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 22-35 of copending Application No. 11/013842.

Although the conflicting claims are not identical, they are not patentably distinct from each other because particularly claims 30-35 of the '842 application define a material including two cemented carbide phases, including a dispersed phase having a contiguity ratio and hardness substantially the same as that of the instant claims. While the '842 claims are limited to a cutting insert and the present claims contain no such limitation, it would appear that products meeting the limitations of the '842 claims would also fall within the scope of the instant claims. Thus, no patentable distinction is seen between the materials defined in the two sets of claims.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Application/Control Number: 10/735,379

Art Unit: 1742

Page 5

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 9. The remainder of the prior art noted on the attached PTO-892 and 1449 forms is of interest. This art is held to be no more relevant to the claimed invention than the art as applied in the rejections supra. With regard to the 1449 form, U.S. Patent 4,966,627 has been crossed out because that patent has been withdrawn, according to USPTO records. Applicant is reminded that the duty to disclose information material to patentability as defined in 37 CFR 1.56 remains.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Wyszomierski whose telephone number is (571) 272-1252. The examiner can normally be reached on Monday thru Friday from 8:00 a.m. to 4:30 p.m. Eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King, can be reached on (571) 272-1244. All patent application related correspondence transmitted by facsimile must be directed to the <u>central facsimile number</u>, (571)-273-8300. This Central FAX Number is the result of relocating the Central FAX server to the Office's Alexandria, Virginia campus.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GPW

November 14, 2006

GEORGE WYSZOMIERSKI PRIMARY EXAMINER GROUP 1700